Atty. Dkt. No. 037768-0109 Appl. No. 10/724,158 Reply to Office action of 04-20-2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for coloring a composition of matter comprising: preparing a color nanopigment comprising two or more metals,

wherein the color nanopigment exhibits at least 10% more transparency than coarse color pigment of substantially same composition with at least 1 micrometer mean particle size;

wherein the transparency is measured at a wavelength between 300 nanometers and 800 nanometers; and

combining the color nanopigment and the composition of matter; and

wherein the nanopigment is multifunctional and provides color while simultaneously

enhancing non-optical performance of the composition of matter.

- 2. (Original) The method of claim 1, wherein the composition of matter comprises plastic.
- 3. (Original) The method of claim 1, wherein the composition of matter comprises ceramic.
- 4. (Original) The method of claim 1, wherein the composition of matter comprises cement.
- 5. (Original) The method of claim 1, wherein the composition of matter comprises glass.
- 6. (Original) The method of claim 1, wherein the composition of matter comprises wood.

Atty. Dkt. No. 037768-0109 Appl. No. 10/724,158 Reply to Office action of 04-20-2005

- 7. (Original) The method of claim 1, wherein the composition of matter comprises fibers.
- 8. (Original) The method of claim 1, wherein the composition of matter comprises paint.
- 9. (Original) The method of claim 1, wherein the composition of matter comprises ink.
- 10. (Original) The method of claim 1, wherein the color nanopigment comprises at least one oxide.
- 11. (Original) The method of claim 1, wherein the color nanopigment comprises at least one nitride.
- 12. (Original) The method of claim 1, wherein the color nanopigment comprises at least one element with atomic number greater than 21.
- 13. (Original) The method of claim 1, wherein the color nanopigment comprises at least one organic compound.
- 14. (Original) The method of claim 1, further comprising heating the color nanopigment before combining the color nanopigment and the composition of matter.
- 15. (Original) The method of claim 1, wherein the combining comprises coating the composition of matter.
- 16. (Original) The method of claim 1, wherein the combining comprises bonding the color nanopigment and composition of matter.
- 17. (Original) The method of claim 1, wherein the combining comprises impregnating the composition of matter with the color nanopigment.
- 18. (Original) The method of claim 1, wherein the combining comprises mixing the color nanopigment and composition of matter.

Atty. Dkt. No. 037768-0109 Appl. No. 10/724,158 Reply to Office action of 04-20-2005

- 19. (Original) The method of claim 1, wherein the color nanopigment has an average packing number less than 1000.
- 20. (Original) The method of claim 1, wherein the color nanopigment comprises at least one inorganic compound.
- 21. (New) The method of claim 1, wherein the non-optical performance is selected from the group consisting of enhanced modulus, hardness and toughness.
- 22. (New) The method of claim 1, wherein the non-optical performance is selected from the group consisting of thermal insulation, corrosion resistance, fire resistance and antimicrobial activity.